

cation with the controller, wherein the active material is adapted to cancel the signal in response to an activation signal from the controller.

17. The active seal assembly of claim 16, wherein the active material is adapted to cancel shear waves.

18. The active seal assembly of claim 16, wherein the active material fluid is an electrorheological fluid, a mag-

netorheological fluid, and combinations comprising at least one on the foregoing active materials.

19. The active seal assembly of claim 16, wherein the controller averages an amplitude and frequency of the planar waves to provide the activation signal.

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